

FIGURE 1A

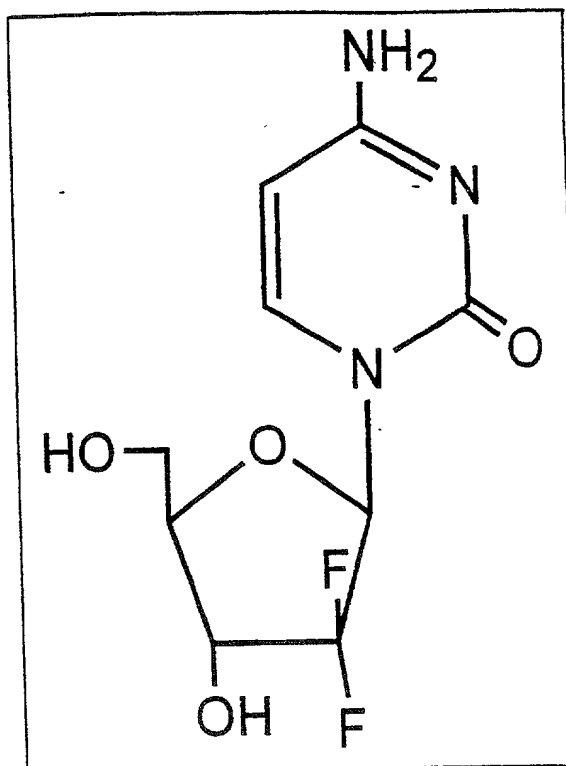


FIGURE 1B

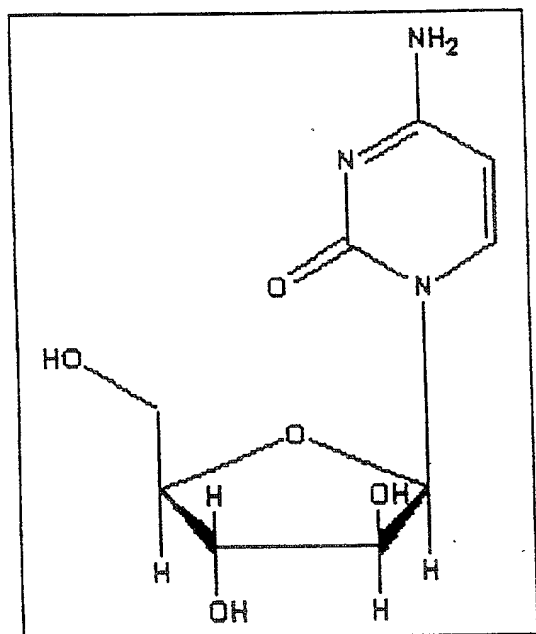


FIGURE 1C

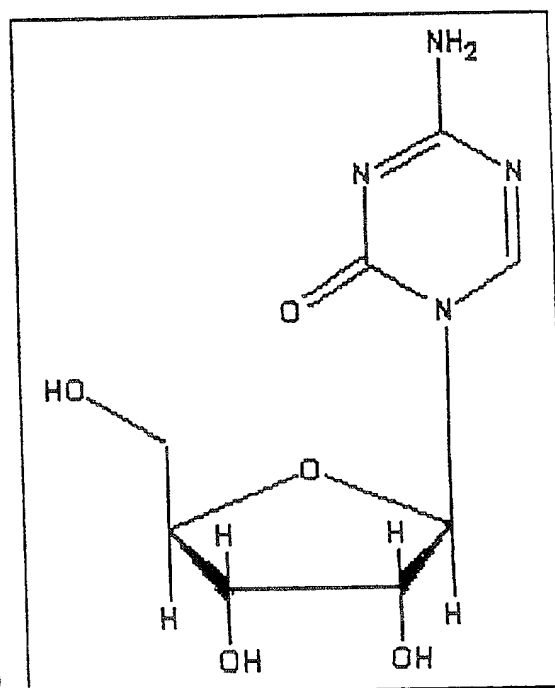


FIGURE 1D

## Synthesis of Lipid Backbone

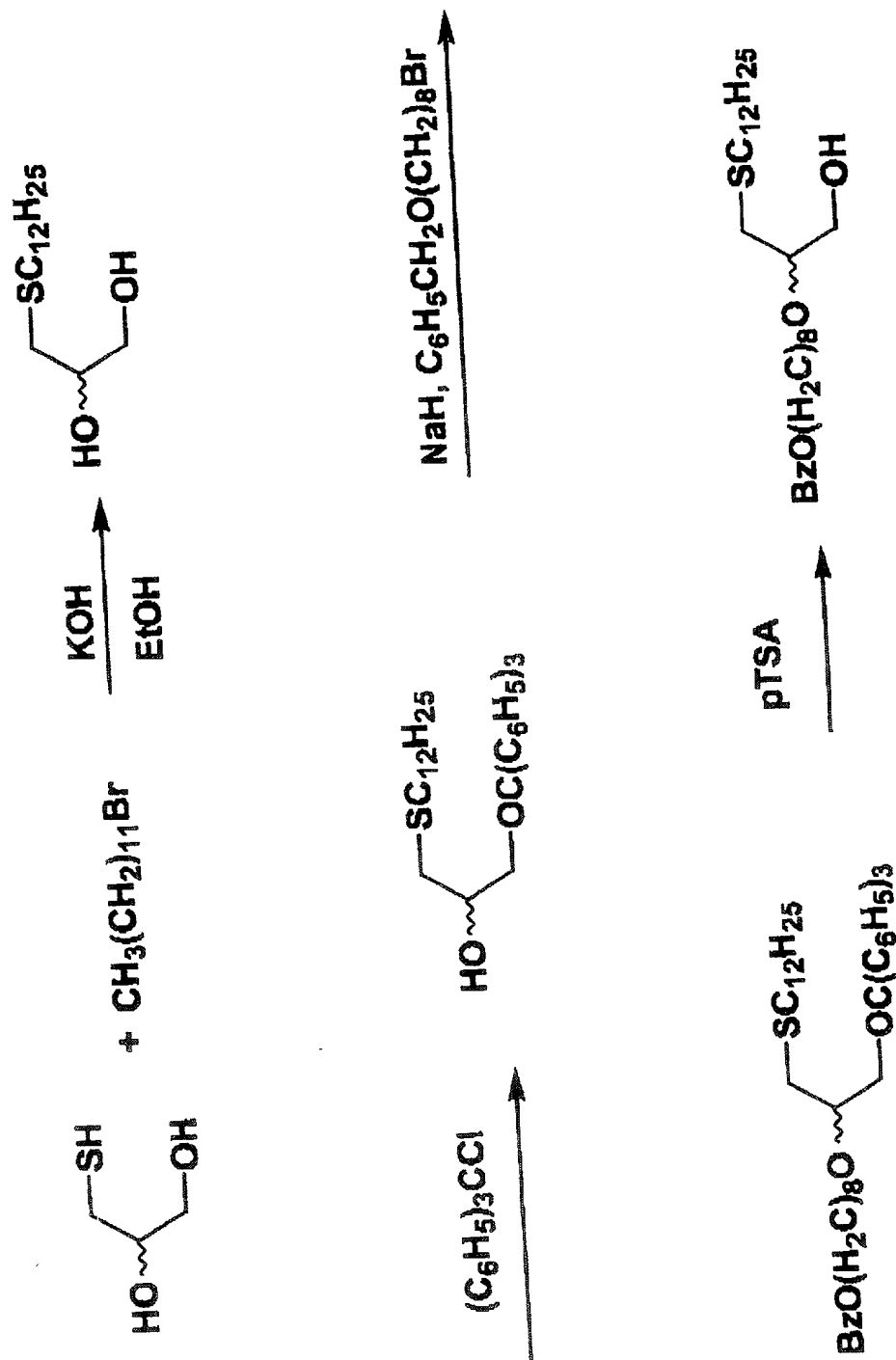
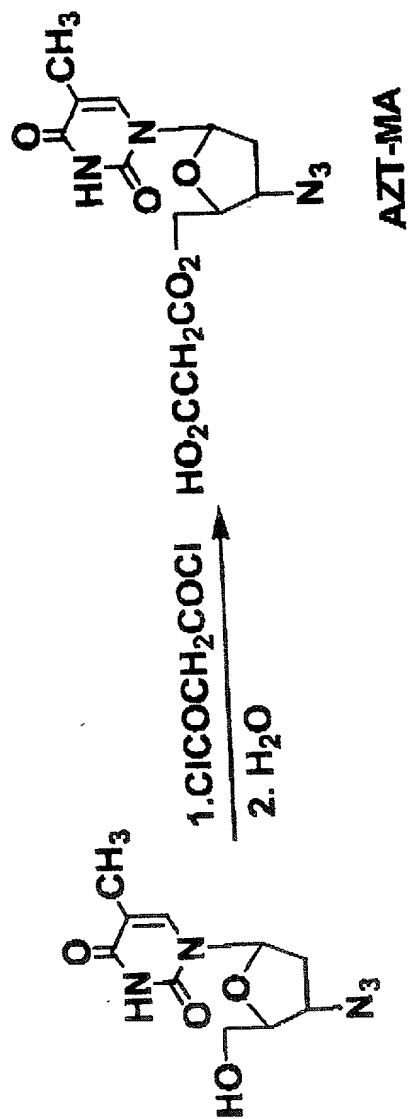


FIGURE 2

## Synthesis of AZT-Malonic Acid (AZT-MA)



**Substituted malonic acid chlorides ( $\text{ClCOCHRCOCl}$ ) could also be used in the above reaction;**  
 **$\text{R} = \text{CH}_3, \text{CH}_2\text{CH}_3, \text{C}_6\text{H}_5$**

FIGURE 3

# Synthesis of AZT-Phosphocholine Conjugate

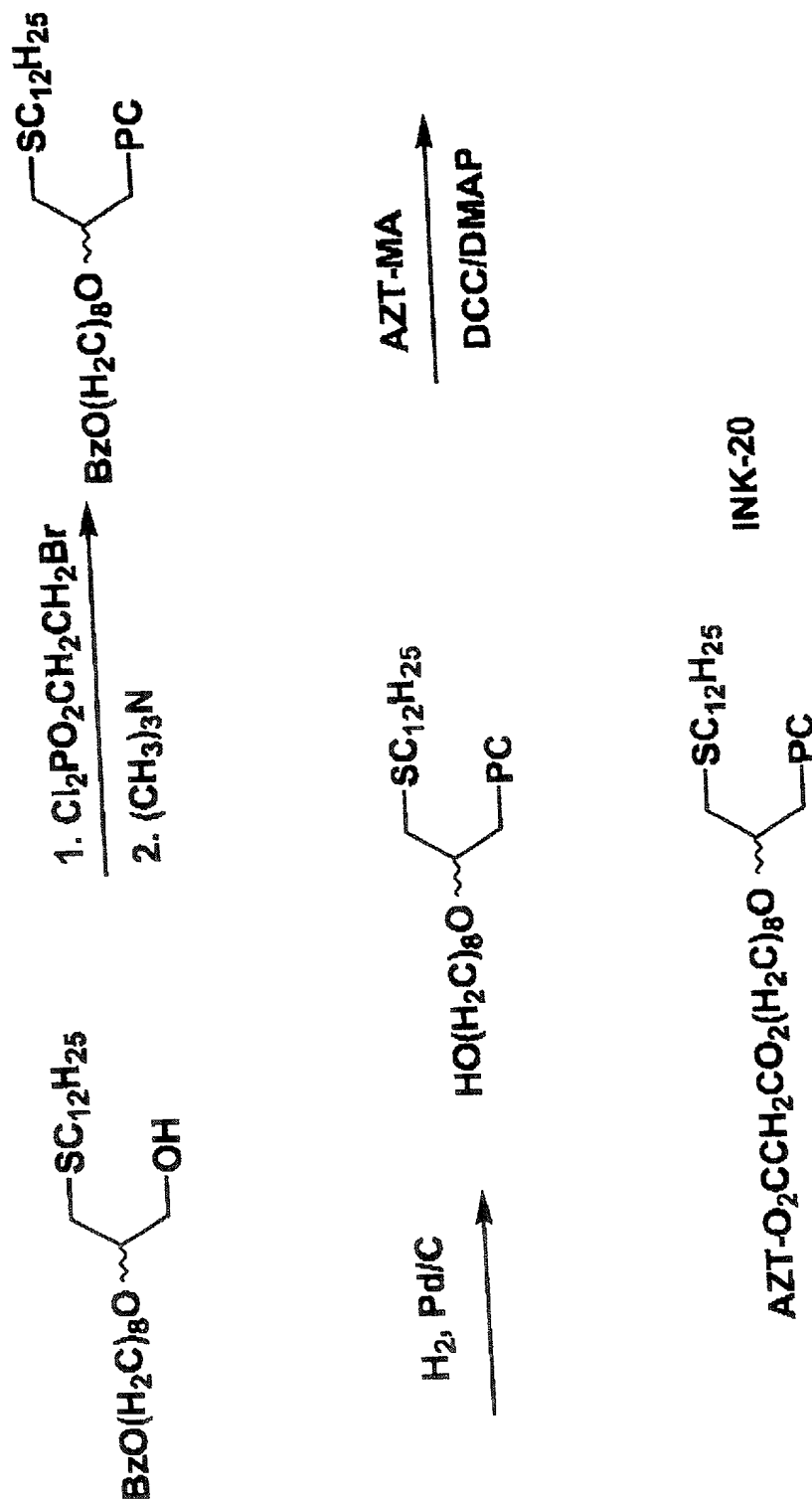


FIGURE 4

# [<sup>14</sup>C]-BM 21.1290 concentrations in plasma and lymphoid tissues of female C57Bl/6 mice

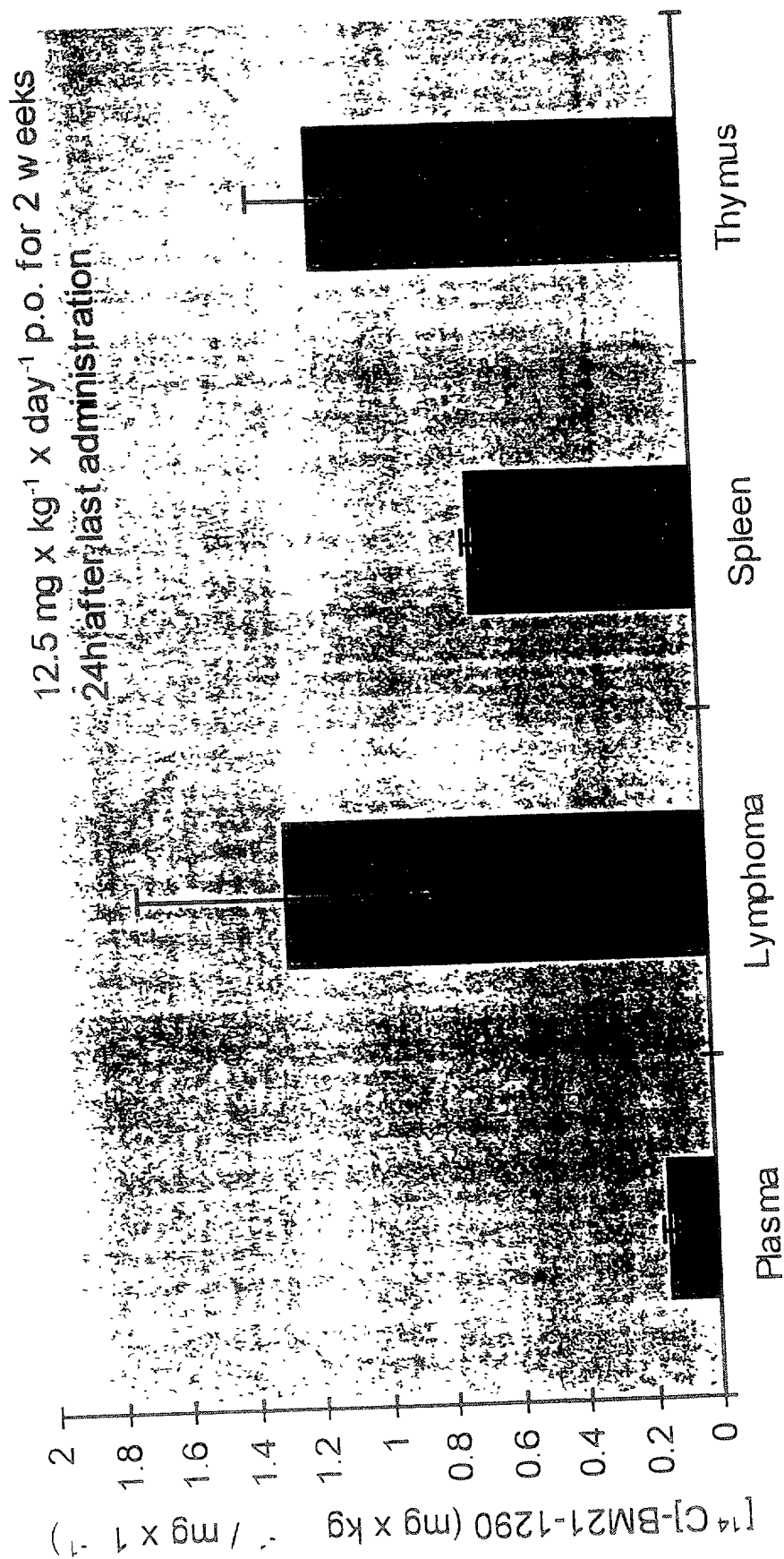


FIGURE 5

Plasma and CNS concentrations of [ $^{14}$ C]-BM 21.1290 in female C57Bl/6 mice

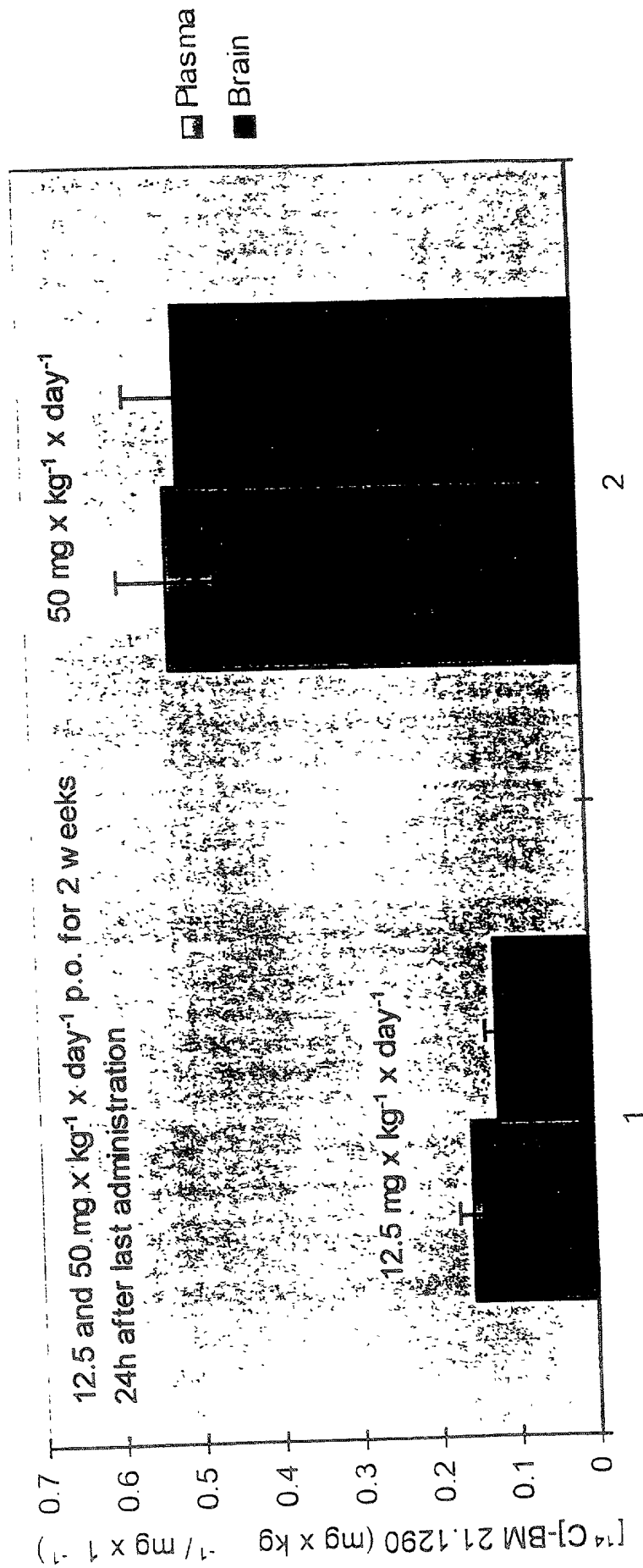


FIGURE 6

lipid & ara-C coupled through phosphate ester

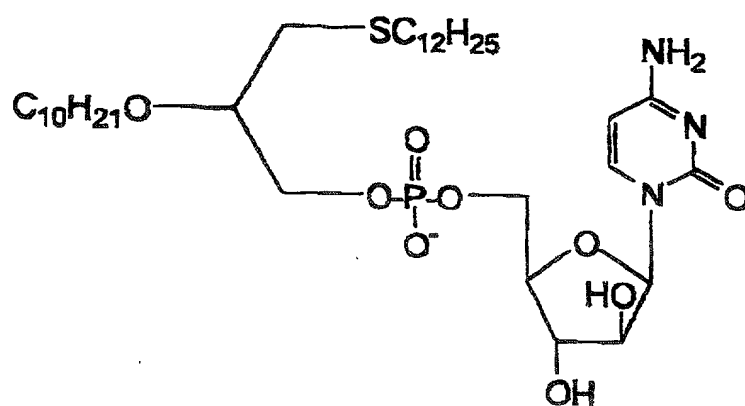


FIGURE 7A

lipid & gemcitabine coupled through phosphate ester

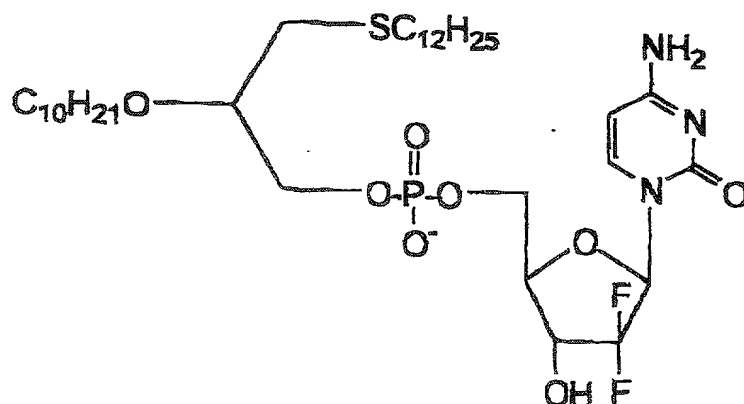


FIGURE 7B

lipid & ara-C coupled through phosphonate ester

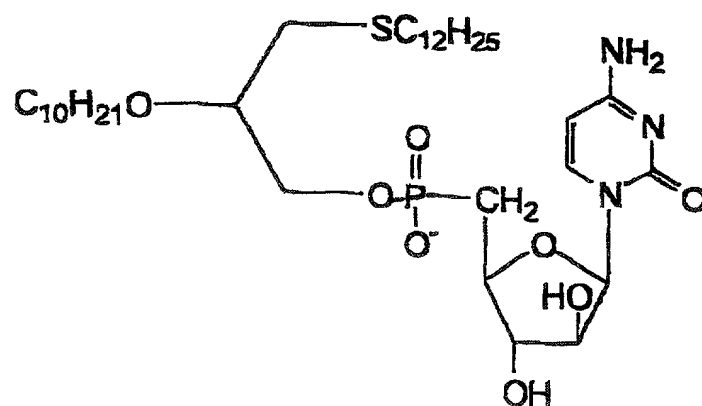


FIGURE 8A

lipid & gemcitabine coupled through phosphonate ester

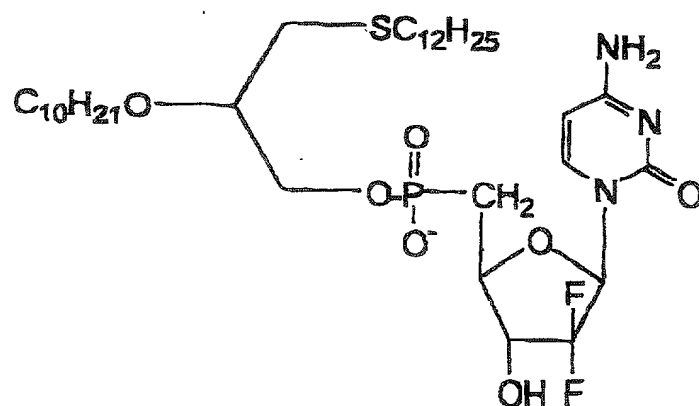


FIGURE 8B



lipid coupled to methotrexate through an ester

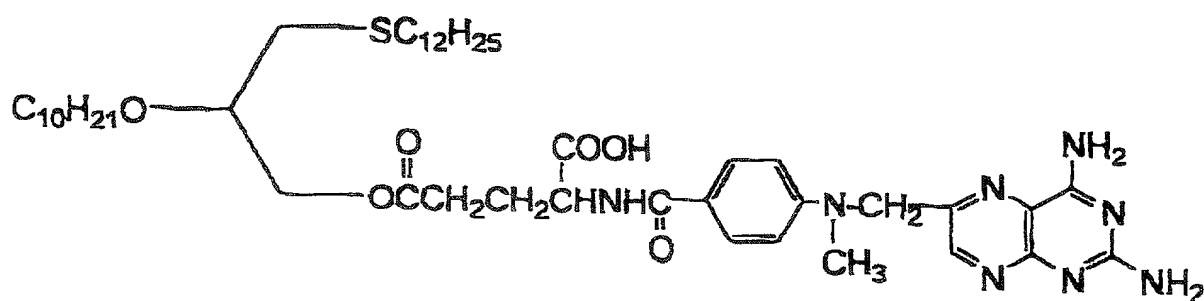


FIGURE 9